

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED ENGINEER - CIVIL					
PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

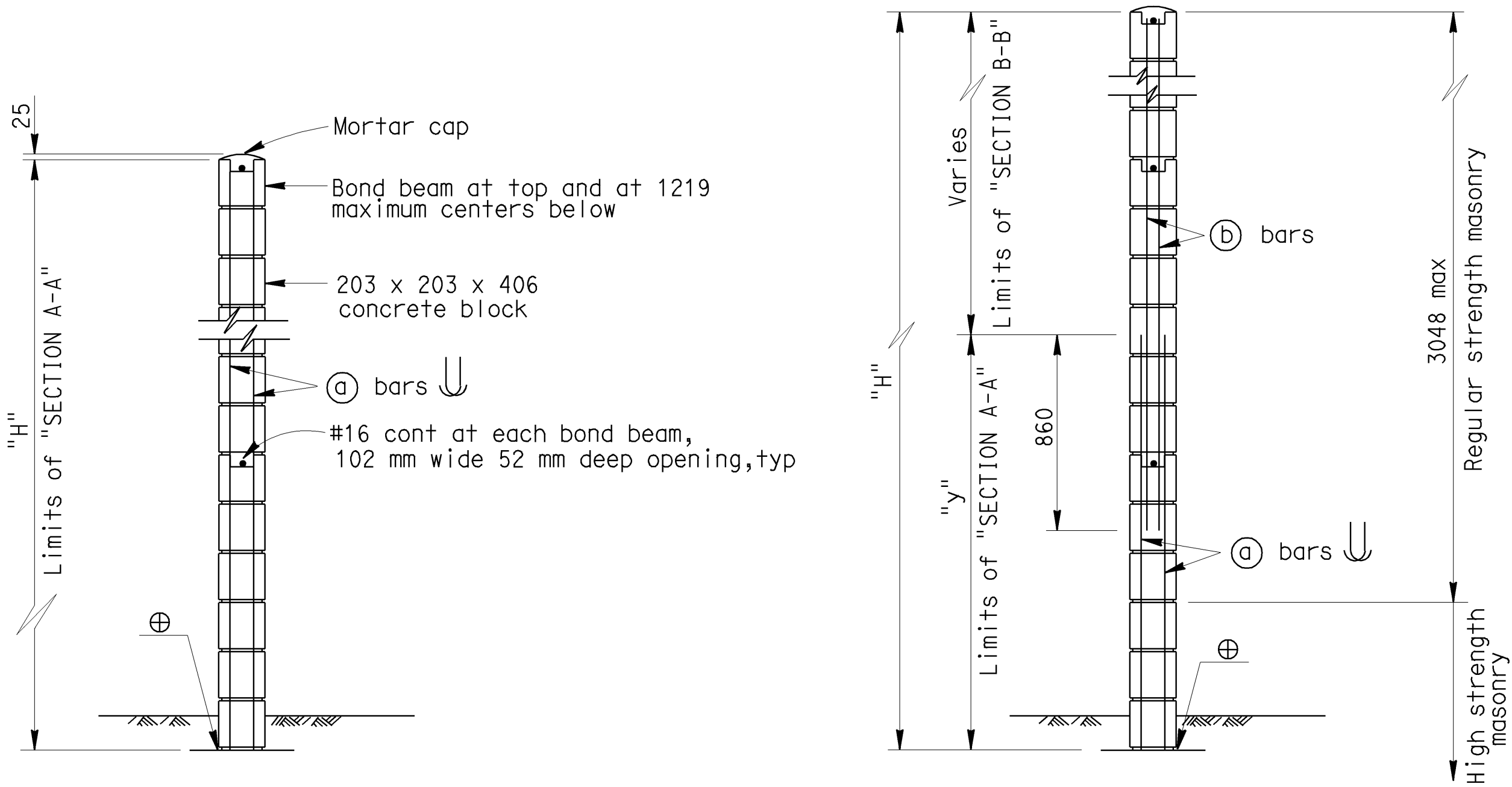
REGISTERED PROFESSIONAL ENGINEER

No. _____

Exp. _____

CIVIL

STATE OF CALIFORNIA



H=1829 THRU H=3048

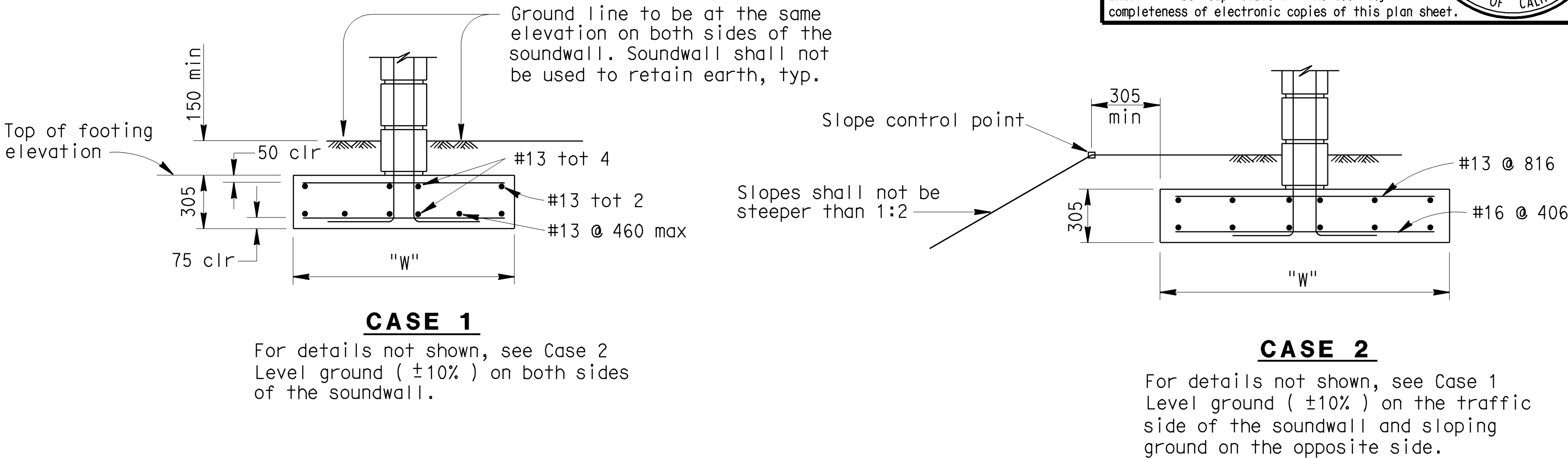
For details not shown, see H=3658 thru H=4877

H=3658 THRU H=4877

For details not shown, see H=1829 thru H=3048

TYPICAL SECTION

⊕ Full mortar bed at bottom of wall



CASE 1

For details not shown, see Case 2
Level ground (±10%) on both sides of the soundwall.

CASE 2

For details not shown, see Case 1
Level ground (±10%) on the traffic side of the soundwall and sloping ground on the opposite side.

SPREAD FOOTING SECTION

TRENCH FOOTING

Maximum H	CASE 1			CASE 2		Maximum H
	Ø = 25 min	Ø = 30 min	Ø = 35 min	Ø = 30 min	Ø = 35 min	
	D	D	D	D	D	
1829	1300	1100	900	1800	1400	1829
2438	1500	1300	1100	2200	1700	2438
3048	1800	1500	1200	2500	1900	3048
3658	2000	1700	1400	2700	2100	3658
4267	2200	1800	1500	3000	2400	4267
4877	2400	2000	1700	3200	2500	4877

Case 1 - Level ground (±10%) on both sides of the soundwall.

Case 2 - Level ground (±10%) on traffic side of the soundwall and sloping ground on opposite side.

SOUNDWALL REINFORCEMENT TABLE

Maximum H	⊙ bars @ 406 max	⊙ bars @ 406 max	"y"	f'm (MPa)	Compressive Strength of CMU (MPa)	Maximum H
1829	#13	—	—	10.34	13.1	1829
2438	#13	—	—	10.34	13.1	2438
3048	#13	—	—	10.34	13.1	3048
3658	#16	#13	1829	13.79	19.31	3658
4267	#19	#13	2438	17.24	25.86	4267
4877	#19	#13	3048	17.24	25.86	4877

GENERAL NOTES

Note A: For type of block and joint finish, see other sheets.

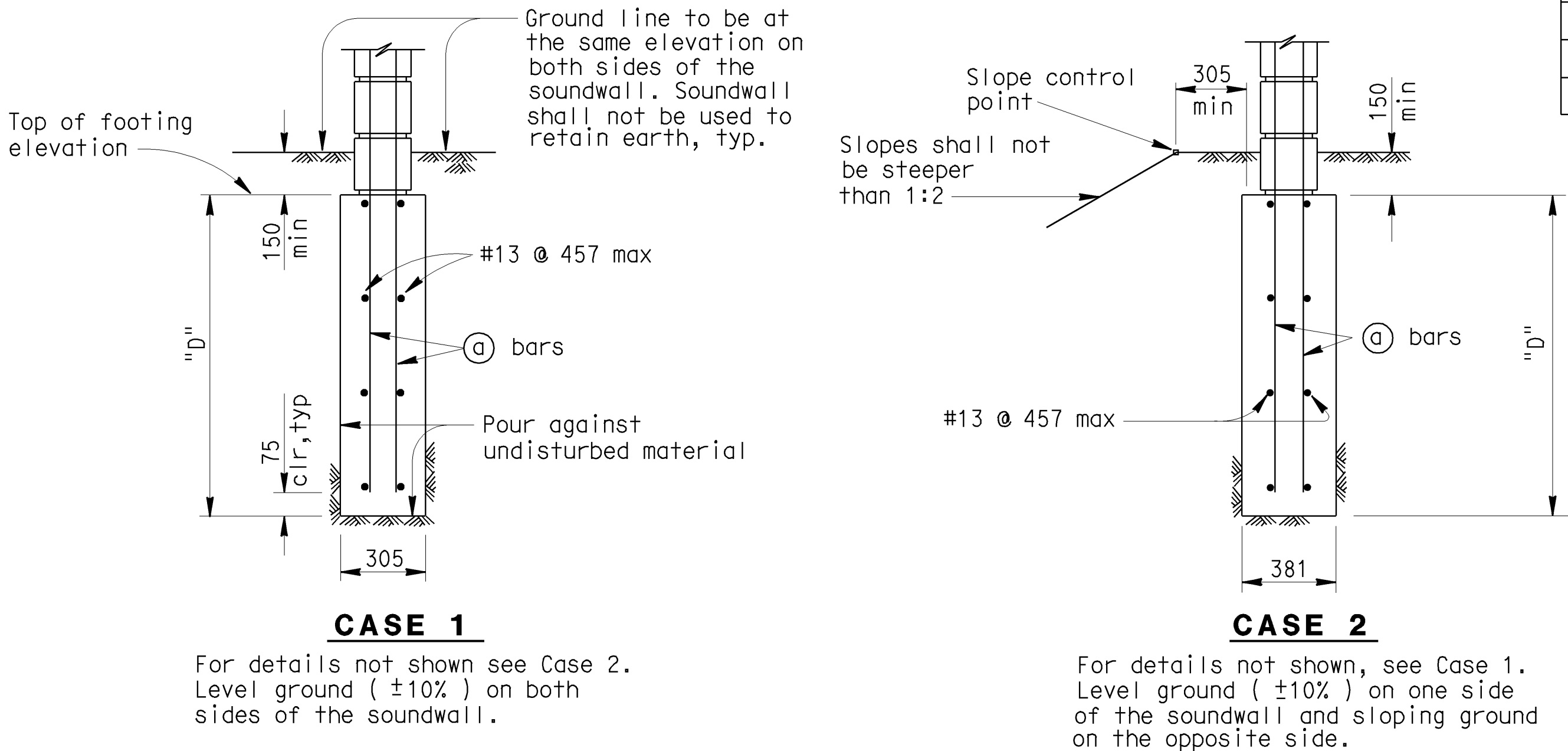
Note B: When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-3.76 mm wires continuous at 1219 mm maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond and beams.

Note C: Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked.

Note D: For intermediate wall heights that are between the "H's" given, use the tabular information for the next higher "H".

Note E: Masonry strengths are listed in the "SOUNDWALL REINFORCEMENT TABLE".

Note F: Geotechnical Services should confirm the stability of slopes.



CASE 1

For details not shown see Case 2.
Level ground (±10%) on both sides of the soundwall.

CASE 2

For details not shown, see Case 1.
Level ground (±10%) on one side of the soundwall and sloping ground on the opposite side.

TRENCH FOOTING SECTION

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING					
RELEASE DATE	9/8/03	DESIGN BY	D. DUNRUD	CHECKED	W. C. WALKER
FILE NO.	xs15-010-1	DETAILS BY	R. YEE	CHECKED	W. C. WALKER
		SUBMITTED BY	D. DUNRUD	DRAWING DATE	11/94
		OFFICE CHIEF			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.

KILOMETER POST

SOUNDWALL - MASONRY BLOCK ON FOOTING

DETAILS NO. 1

DS OSD 2147A (METRIC) (REV. X/XX/XX)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

0 10 20 30 40 50 60 70 80 90 100

CU
EA

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

USERNAME => jsanchez

xs15-010-1.dgn

DATE PLOTTED => 16-JAN-2004 TIME PLOTTED => 14:50